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DATE MAILED: 07/22/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,487	02/27/2002	Houng Joong Kim	381NP/50950	5931
7590 07/22/2004			EXAMINER	
Crowell & Moring LLP			PERRIN, JOSEPH L	
Evenson, Mcke	eown, Edwards & Lenehan			
Intellectual Property Law Group			ART UNIT	PAPER NUMBER
1001 Pennsylvania Avenue, N.W.			1746	
Washington, D	OC 20004-2595			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	7
Office Assistant Community	10/083,487	KIM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Joseph L. Perrin, Ph.D.	1746	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till be within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON.	mely filed  ys will be considered timely.  the mailing date of this communication.	
Status			
Responsive to communication(s) filed on <u>27 F</u> This action is <b>FINAL</b> . 2b) ☑ This      Since this application is in condition for allowal closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4)  Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-27 is/are rejected.  7)  Claim(s) 4-13 and 17-26 is/are objected to.  8)  Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 27 February 2004 is/arc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	e: a) $\boxtimes$ accepted or b) $\square$ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is obtained.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	4)  Interview Summary Paper No(s)/Mail Do 5)  Notice of Informal F 6)  Other:	(PTO-413) ate ratent Application (PTO-152)	

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#### **DETAILED ACTION**

## Information Disclosure Statement

1. It is noted that an Information Disclosure Statement under 37 CFR 1.97 for the present application has not been received by the Office. If Applicant believes this to be in error, Applicant is urged to submit documentation supporting a proper filing of any previously submitted information disclosure statements in order to have such disclosures considered by the Office.

### Specification

2. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use:
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

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3. The abstract of the disclosure is objected to because the technical disclosure of the claimed washing machine is not sufficiently described. Correction is required. See MPEP § 608.01(b).

## Claim Objections

4. Claims 4-13 & 17-26 objected to because of the following informalities: The preamble of the claims should be changed from an "electric motor" to a "washing machine" since the claimed invention from which these claims depend is a "washing machine". Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 1-27 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a first rotor with a first field magnet and a second rotor with a second field magnet (for instance, in Figures 2-4 & 7-15), does not reasonably provide enablement for a single rotor with both first and second field magnets capable of phase change relative to each other. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. As best understood from the original disclosure, the invention is directed to an electric

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motor with first and second rotors each having field magnets (as enabled by Figures 2-4 & 7-15, and relative associated text) and the claims will be examined accordingly.

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US 6,257,027 to Imai, which discloses a washing machine with two drive motors including a rotor and stator;

US 6,191,561 to Bartel, which discloses a rotary motor with two rotors having field magnets and a mechanism to align/misalign (in phase and out of phase);

US 5,778,703 to Imai *et al.*, which discloses a washing machine with electric motor including a stator and rotor having field magnets;

US 5,353,613 to Smith *et al.*, which discloses an electric motor washing machine drive including a stator and rotor with permanent magnets;

US 5,266,855 to Smith *et al.*, which discloses an electric motor washing machine drive including a stator and rotor with permanent magnets;

US 4,305,031 to Wharton, which discloses a rotary electric motor with two rotors having permanent magnets and servo to control rotor speed;

US 3,713,015 to Frister, which discloses a twin rotor with permanent magnets and mechanism for aligning/misaligning (in phase and out of phase).

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is (571)272-1305. The examiner can normally be reached on M-F 7:00-4:30, except alternate Fridays.

- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph L. Perrin, Ph.D. Examiner
Art Unit 1746

John Chin

jlp